

1 ATGAGCTTCTAGAGCAAGGAGAGAGCCGTTTCATGGCCATCCCGAGCTGTAACCCAGCTCAGAAAGAA
 M S F L E Q G E S R S W P S R A V T T S S E R
 30
 AcC
 T
 71 GCCATGGGGACCAGGGGaaCAAGGCTCTAGATGGACAAGGCAGGAGGATGTAGAGGAGGGGGGCTCC
 S H G D Q G N K A S R W T R Q E D V E E G G P P
 52
 aGT
 S
 141 GGGCCCGAGGGAaGTCCCCAGTCCAGGCCAGTTGTCTGATGCCCGGGCAGGAGGCCAATTCCCAAAG
 G P R E G P Q S R P V A E S T G Q E A T F P K
 211 GCCACACCCCTTGGCCCAAGCCGCTCCCTTGGCCGAGGTGGACAACCCCAACAGAGCGGGACATCCTCC
 A T P L A Q A A P L A E V D N P P T E R D I L
 281 CCTCTGACTGTGCAGCCTCAGCCTCCGACTCCAACACAGACCATCTGGATCTGGGCGATAGAGTTCTCAGC
 P S D C A A S A S D S N T D H L D L G I E F S A
 351 CTCGGCGGCGTCGGGGGATGAGCTTGGCTGGTGGAGGAAGCCAGCCCGCTGCCATCCCCAGAGGTG
 S A A S G D E L G L V E E K P A P C P S P E V
 421 CTGTTACCCAGGCTGGGCTGGGATGATGAGCTGCAGAAGCCGGGGGCCAGGCTCATGTCAGTTCACTG
 L L P R L G W D D E L Q K P G A Q V Y M H F M
 491 AGGAGCACTGCTACGATGCCATGGCAGCAGCTCCAACTGGTCACTTCGACACCATCTCGGAGAT
 Q E H T C Y D A M A T S S K L V I F D T M L E I
 199200
 aTCCaA
 I Q
 561 CARGAAGSCCTTCTTGCCTGTGTGGCAACGGCTGCGAGCGGCACCTTTGTGGGACAGCAAGAAGCAG
 K K A F P F A L V A N G V R A A P L W D S K K Q
 631 AGCTTCGTGGGATGCTGACCATCACAGCTTCATCTTGTGCTGACCCGCTATTACAGGTCCCCCTGG
 S F V G M L T I T D F I L V L H R Y Y R S P L
 701 TCCAGATCTACGAGATTGAAGAACATAAGATTGAGACCTGGAGGGAGATCTACCTCAAGGCTGCTTCAA
 V Q I Y E I E E H K I E T W R E I Y L Q G C F K
 771 GCCTCTGGTCTCCATCTCTCCCAATGACAGCGCTGTTGGAAGCTGTCTAGCCCTCATCAAGAACCGGATC
 P L V S I S P N D S L F E A V Y A L I K N R I
 841 CACCGCTGCGGGTCTGGACCTGTCTCCGGGGCTGTGCTCCACATCTCACACATGAAGGCTTCTCA
 H R L P V L D P V S G A V L H I L T H K R L L
 911 AGTTCTGTGACACATCTTGGCACCTGCTGCCCGGCCCTCTCTCTACCGCACATCAAGATTGTGG
 K F L H I F G T L L P R P S F L Y R T I Q D L G
 981 CATCGGCACACTCGAGACTTGGCGGTGGTGTGGAACCGGCGCCATCTGACCGCACTGGACATCTTC
 I G T F R D L A V V L E T A P I L T A L D I F
 051 GTGAGCGGCGTGTCTGTGCGCTGCTGTGTCACGAAACTGGACAGGTAGTGGGCTCTACTCTGCGT
 V D R R V S A L P V V N E T G Q V V G L Y S R
 1121 TTGATGTGATCCACCTGGCTGCCCAACAACATACAACCACTGGACATGAATGTGGGAGAAAGCCTGAG
 F D V I H L A A Q O T Y N H L D M N V G E A L R
 1191 GCAGCGCACACTGTGTCTGGAAGGCGTCTTCTGCCAGCCCAAGAGACTGTGGGGGAAGTCAATGAC
 Q R T L C L E G V L S C O P H E T L G E V I D
 1261 CGGATTGTCCGGGAACAGGTGCAACCGCTGTGCTGTGATGAGACCCAGCACCTCTGTGGCGTGGTGT
 R I V R E Q V H R L V L V D E T Q H L G C V V
 1331 CCCTCTGACATCTCTCAGGCTCTGGTGTCTCAGCCCTGCTGGAATTGATGCCCTCGGGGCTCGAAGCC
 S L S D I L Q A L V L S F A G I D A L G A *
 1401 TTGGAACCTTTGCTCTCAGGCCACTTGGCACCTTGGAAAGCCAGTGAAGGGAGCCGTGACTCAGCTCTC
 1471 ACTTCCCTCAGCCCACTTGTGCTGTGCTCTTGTTCAGGTAGGCTCCGCCGGGGGCCCTGGGCTCA
 1541 GCATCAGCCCTCTAGCTCTCCCTGGGACCCAGATCTCAGACTGGGGCACCTTGAAGATGGGATGGGCCA
 1611 GCTTATAGCTGAGCAGCTCTGTGAATCTACACAGACTCAAGACTCACTGTGGGACCACTGCTTTGTCCCA
 1681 TTCTCAGCTGAATGATGGAGGGCTCATAGAGGGGTGGACAGGGCTCGGATGAGAGCCAGATCAGTG
 1751 ACCTGGCTCTCAGCACTCCGGGGAGTTAGAGCTGCCTCTCTCAGTTCACTTCCCTCTGCTGAGAATGT
 1821 CCCTGGAAGGAAGCAGTTAATAAACCTTGGTGGATGGAAATTGGAGAGTGG

Fig. 1

GAAACTCTTCTCCCCACAG**ACTCCCTCCTGGAGCAGCCTCGGGGGACCTAAGC**
ATCAAGGTAGGTGGGGCTGCCCCTGCTCGCGGGCCCAGGCTCTTCTCCACCT
 CCTTTTCTTCCACGTCTTCAGGACCCCAATCTCCCCACTCCACTCGCCTGGCT
 CTTGTCTTCTCTCCTTTGCCTTCTTTGTTCCGCTTTGTTCTTCTTCTCCTCCTCT
 CCTTCACCTCCTCCTCTTTCAAAGAGTAGAGGGGGCATCTATAGAGTCTGG
 AGATTGGGACTCTCTTGACTTTCTCGCTTACTAGCTGTGTGATTTGTGGC
 AAATTGCTTCACCTCTCTGAGCTCAGGTCTCTCGTTAGTAAACAGGGCT
 GATAGCCATGCCCTTCGGATAAGATTGCCGTGAGGGTTGAATGAGAAATT
 TGTTGGAGGACAAGCCCTTTGAAGCT**TCCAATATTAAATATTTTTATTT**
 ATTTATTTATTTTTGTCTTTTGTCTATTCTTTGGGCCGTCCCACGGC
 ATATGGAGGTTCCCAGGCTAGGGGTGCAATCGGAGCTGTAGCCACTGGCC
 TACGCCAGAGCCACAGCAACGCGGGATCCGAGCCGCATCTGCAACCTACA
 CCACAGCTCACGGCAACGCCGATCGTTAACCCACTGAGCAGGGGCAGGC
 ACCGAACCTGCAACCTCATGTTTCTAGTGGGATTTCGTTAACCACTGCGC
 CACGACGGGA**ACTCCCCAATATTAAATATT**ATTATTAGTAACATTTTAAT
 GGAATTTATTGTGTTACTCCCATTAAACCAACAGGTCCCATTTCTCCCTT
 GCAGAGAT**GAGCTTCCTAGAGCAAGGAGAGAGCCGTTATGGCCATCCCG**
AGCTGTGACCACCAGCTCAGAAAGAAAGCCATGGGGACCAAGGGGACCAAGG
CCTCTAGATGGACAAGGCAGGAGGATRIAGAGGAAGGGGGGCCCTCCGGGC
CCGAGGGGAARGTGAGTTCAAGGCCAGTTCTGGGGAGCTGGGACTGGGGGC
 AGTGGGCAGTCTCAAACCTGGGGCCCGTCTCTGGTCTGGTCCCTCCATA
 ACACAGGCACATAACATCATGCAGCC

GAAACTCTTCTCCCCACAGACTCCCTCCTGGAGCAGCCTCGGGGGACCTA
 AGCATCAAGGTAGGTGGGGCTGCCCCTGCTCGCGGGCCAGGCTCTTCTC
 CCACCTCCTTTTCTTCCACGTCTTCAGGACCCCAATCTCCCCACTCCAC
 TCGCCTGGCTCTTGCTTCTCTCCTTGCCCTCTTTGTTCCGCTTTGTT
 TCTTCTCCTCCCTCTCCCTCACCTCCTCCCTCTTTCAAAAGAGTAGAGG
 GGGCATCTATAGAGTCTGGAGATTGGGACTCTCTTGACTTTCTCGCTTAC
 TAGCTGTGTGATTGTGGCAAATTGCTTCACCTCTCTGAGCTCAGGTCTC
 TCGTTAGTAAACAGGGCTGATAGCCATGCCCTTCGGATAAGATTGCCGT
 GAGGGTTGAATGAGAAATTTGTTGGAGGACAAGCCCTTTGAAGCTTCCCA
 ATATTAATATTATTATTAGTAACATTTTAATGGAATTTATTGTGTTACT
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 GAGCAAGGAGAGAGCCGTTATGGCCATCCCGAGCTGTGACCACCAGCTC
 AGAAAGAAGCCATGGGGACCAGGGGACCAAGGCTCTAGATGGACAAGGC
 AGGAGGATATAGAGGAAGGGGGGCTCCGGGCCGAGGGGAARGTGAGTTC
 AAGGCCAGTTCTGGGGAGCTGGGACTGGGGGCAGTGGGCAGTCTCAAAC
 CTGGGGCCCGTCTCTGGTCTGGTCCCTCCATAACACAGGCACATAACATC
 ATGCAGCC

Fig.2B

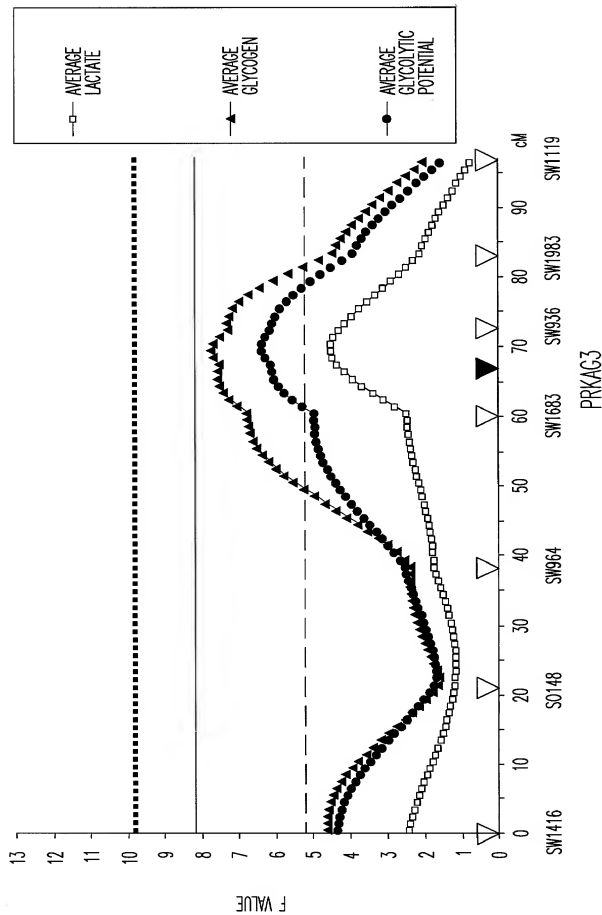
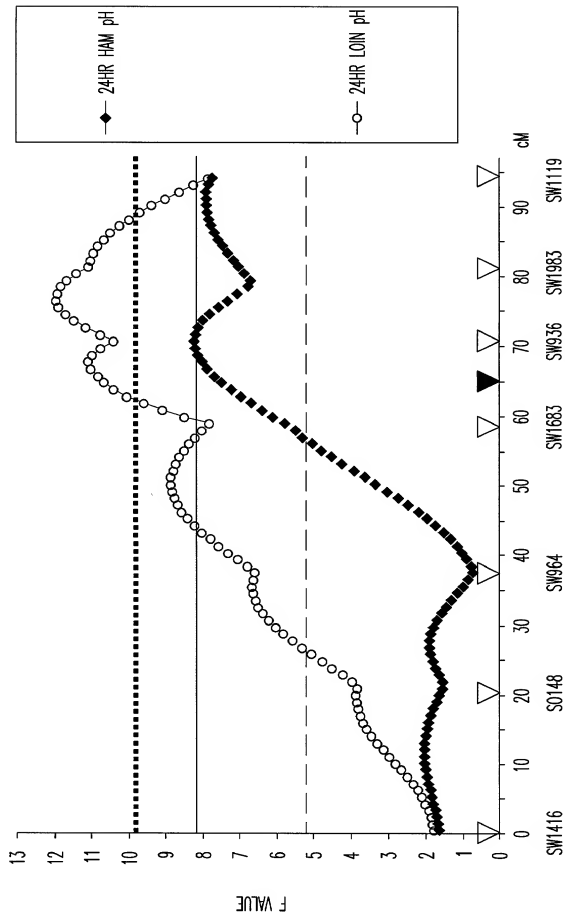


Fig. 3A

100160-22005660



PRKAG3

Fig. 3B

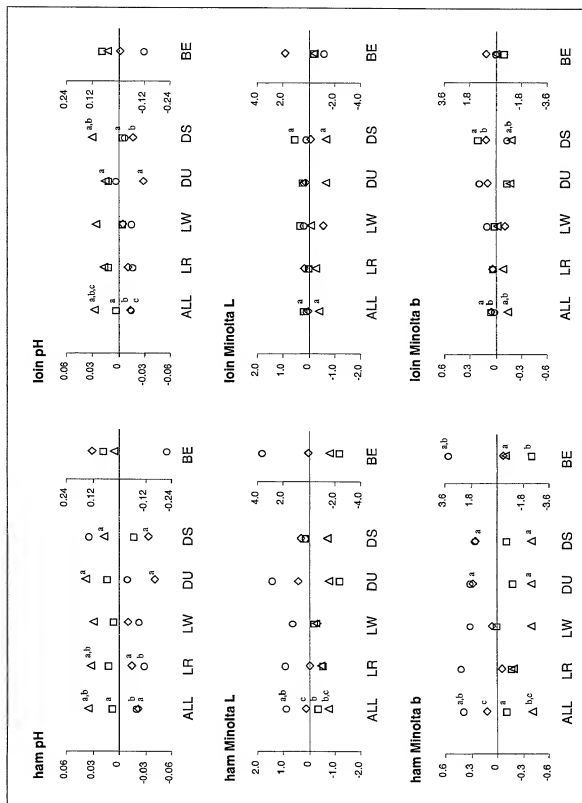


Fig. 4